**Heart Disease Prediction Project Using AI/ML**

***Project Phase III Report***

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**ABSTRACT**

Heart Disease Prediction Project is an AI-Based Project developed for helping predict Heart Diseases using Machine Learning Algorithms. This system is a field concerned with diagnosing and helping prevent any major heart disease, our sole aim is to detect the probability of person that will be affected by a savior heart problem or not. It requires more time and effort , And doesn’t really helps if detected in later stages when diseases get chronic.

Thus, in order to reduce Fatalities and help diagnosing the Heart Disease Prediction can be useful in medical Industry where the cost of doing such tests are pretty expensive and are not feasible. The purpose of this project is to reduce time consumption and human effort. This application provides user friendly interface as well.

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**Feature/characteristics identification**

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In order to reduce time consumption and human effort the Medical Store application can be applied in medicals where manual procedure exists. The purpose of this project is to reduce time consumption and human effort. This application provides user friendly interface as well.

**Interoperability**  
The beauty of a medical store System is its ability to tie diverse aspects together so they can perform as one unified system. Getting these aspects to work cohesively can be simple or complex, depending on the “openness” of the Medical Store System. The medical store system will interoperate the wide variety of thing that needs to be noted or manually written into easily accessible thing.

**Remote Access**  
The medical store system will provide easy access to the details of all the information that is needed by the user or the medical store operator. So, this app/site will help the operator to easily access information at much faster rate than finding the data manually. //

**1. Features/Characteristics Identification**

Planning is the strong keys to make the project more effective and well utilization of resources to achieve the goal. In this, Students have to identify characteristics of the project like how objectives are important

for achieving the goal, the total time duration of the project, calculated risk, and uncertainty of the project, the total estimated cost of the project, etc. are essential characteristics of the project. From initial program formulation through final closeout, we plan, prepare, and coordinate activities required to successfully execute development programs. Planning is the first task in the system implementation. At the time of implementation of any system people from different departments and system analysis involve. They are confirmed to practical problem of controlling various activities of people outside their own data processing departments.

The line managers controlled through an implementation coordinating committee. The committee considers ideas, problems and complaints of user department, it must also consider:

1. The implication of system environment

2. Self selection and allocation for implementation tasks

3. Consultation with unions and resources available

4. Standby facilities and channels of communication

**1.1 Objectives –**

* The research aims are to detect heart disease using the python programming language.
* The objectives of the study are as follows:
* To critically analyze the ways python language is used to detect heart disease.
* To critically investigate the previous activities and apply a suitable methodological approach for superscribing the identified problem.
* To critically apply data interpretation strategies in python language for health problem detection.

1.2 Single entity –  
Our project is one whole thing. This means that in a project although different people contribute still is recognized as a single entity. The teams are often specifically assembled for a single project . all things can be accessed on a single platform .

1.3 Life Span –

No project can be ceaseless and indefinite. It must have one and beyond which it cannot proceed. Every project is invariably time-bound. At the time of planning, you will see the time phase of the project where the team can work independently on the project modules. The total span of our project is 3 months .we all have worked together for 3 months . it was not a specific time for any team member .

1.4 Require funds –

No fund was required for our project as we have just started it . no maintenance cost is added as such for now .

1.5 Life Cycle –

Each project has a life cycle with different stages like start, growth, maturity, and decay. A project has to pass through different stages to get itself completed.. According to the concept of SDLC we have done planning first and then we divided work in ourselves and then we have designed it and build it .

1.6 Team Spirit –

Team spirit is required to get the project completed because the project constitutes different members having different characteristics and from various disciplines. But to achieve common goal harmony, missionary zeal, team spirit is necessary. Our team had excellent team spirit. The four of us exhibit various skills and together we combined our respective expertise and created this amazing project which were required for its success .

1.7 Flexibility -

In future we might make changes in the software based on user’s feedback, implementing new functionality and software performance for more clear and better functionality. We might add and improve some features that will make our software more dynamic and flexible.

1.8 Directions -

Our software fulfils customer’s needs. We identified customer’s similar interests and problems and developed our software according to it. We gathered and analysed large groups of people to know their interests, problems and requirements and then added functionalities in the software according to it.